Gayatri Devi Dasari

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EDUCATION

MS in Engineering Data Science, University of Houston, TX| USA | 3.67/4 CGPA **Jan 2024 - Dec 2025**

B. Tech in Information Technology, Gudlavalleru Engineering College| India | 9.21/10 CGPA **Aug 2017 - Jul 2021**

SKILL SET

Programming Languages: (Python, SQL, Java, R, Kotlin, XML, JSON) , Data Analysis & Tools: (Pandas, NumPy, Matplotlib, Seaborn, Tableau, PowerBI, Excel (Advanced)), Database Management: (SQL Server, MySQL, Oracle, SQLite), Machine Learning Algorithms: (Supervised (Regression, Classification), Unsupervised (Clustering, PCA), NLP (BERT, GPT, LSTM), Deep Learning Models (CNN, RNN, ResNet, UNet, GANs)), Machine Learning Tools: (PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face Transformers) , Cloud Platforms: (AWS, Google Cloud) , Version Control: (Git, GitHub, bitbucket), Statistical Analysis: (Hypothesis Testing, A/B Testing), Software Development & Tools: (Android SDK, RESTful APIs, Flask, Streamlit, Firebase, Jupyter, Pycharm), Development Methodologies: (Agile Methodologies, SDLC, CI/CD Deployment) , Project Management & Collaboration: (Jira, MS Office, GitHub) , UI/UX & Mobile Development: (Figma, 2D Animations)

WORK EXPERIENCE

Android Developer: Tata Consultancy Services, Telangana, India **Aug 2021 - Dec 2023**

- Collaborated with product managers, designers, and cross-functional teams to meet product goals, stakeholder, and user requirements. Enhanced communication and project management using Confluence and information systems.
- Established best practices and conducted code reviews to upgrade code quality and boost team productivity by 25%. Manifested analytical and problem-solving skills by implementing algorithms and performing quantitative analysis to tackle complex technical issues.
- Refined app performance by 30% through code optimization and market analysis while developing state-of-the-art mobile applications in Java and Kotlin, ensuring scalable solutions by taking ownership of app modules.
- Utilized design patterns such as MVVM and Clean Architecture, along with Dependency Injection, Unit Testing, Ktor, Room, Live Data, Coroutines, and multithreading to amplify app architecture and performance.
- Worked extensively with Android activities, fragments, and demonstrated a strong understanding of their lifecycles, ensuring smooth transitions and app stability.
- Expertise in Android components such as broadcast receivers, content providers, and services, ensuring efficient background processes and seamless data handling within the apps.
- Implemented complex UIs using bottom sheets, various view components, and handled intricate layouts to improve user experience across different screen sizes.
- Reduced app crashes by 50% through advanced testing, increased unit test coverage by 15% using automated testing frameworks.
- Managed version control using Git and GitHub, adhering to coding standards. Led UAT and app release cycles with a focus on security and integration.
- Tata Motors iRA 2.0
- Tata Motors iRA.ev

ACADEMIC PROJECT

Olympic Data Analyzer: Olympic Data Analyzer website

- Developed an Olympic data analyzer using a dataset of over 271,000 records and 15 attributes to analyze athlete performance trends, medal counts, and demographic statistics. Utilized Python and Pandas for data analysis, enhancing data visualization and reporting capabilities, increasing data insights and user engagement by 30%.

Movie Recommendation System: Movie recommendation Website

- Innovated a personalized movie recommendation system using NLP techniques to analyze user preferences and recommend relevant movies. Achieved 80% precision, a 30% increase over a random recommendation baseline.

LEADERSHIP

- As a Graduate Teaching Assistant at ACES, at University of Houston, contributed to fostering an inclusive learning environment by adapting teaching methods to meet diverse student needs, aligned with ACES' mission.